

# DEEPAK CHANALIA

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## Summary:

- Almost 15 years of IT experience with emphasis on software design, development, customization (product enhancement) and implementation using industry standard tools/technology and languages.
- Currently working with **Infosys Limited** in a diversified environment with the capacity of Technology Lead and handling team of around 12 peoples.

### **Identity and Access Management (IAM) solution implementation:**

- Almost 5 years of development, customization, and deployment experience in ForgeRock IDAM (AM, IDM, DS and IG products).
- Having 8+ years of experience in end to end Installation, Implementation and Customization of different IAM products including CA-Siteminder, Oracle Identity Manager (OIM), Forgerock's OpenAM, OpenIDM, OpenDJ.
- Involved in User Life Cycle Management using **IDM products (e.g. OIM, OpenIDM) and their integration with LDAP** (configuring Provisioning and Reconciliation for LDAP) and other third-party applications.
- Hands on working experience in Cloud platform (AWS) using **Kubernetes and Docker** framework using Forgerock suite of products (OpenAM, IDM and IG).
- Having good experience in Data migration to/from different IDM vendors or legacy systems into the database of newly built Identity solution stack.
- Worked on custom ICF connector for OIM, customization in OIM OOTB functionality and extend the OIM features.
- Experience in solutionization involving requirements elicitation, preparing solution guidance, High- and Low-level design documentation and executing build and deployment cycle including design and development of Custom business applications.
- Extensive experience (4+ years) in IAM Product **CA's Siteminder** with end to end implementation of various custom authentication schemes (e.g. Knowledge based authentication, Machine Authentication, etc.) and configuration.
- Exposure to deployment process of IDM components in customer various environment including SIT, Pre-prod, and production

### **Application Development:**

- Good hands on experience in developing the Javascript based solution for Forgerock IDM.
- Good experience (almost 5 years) of **developing QT-GUI Applications** (C++ library for GUI design) under **Windows, Linux** and **MAC** environment for desktop applications.
- Well versed with **Internationalization (I18N)** and **Unicode** concepts and led the team to develop a resource bundle (RB) library (using **IBM-ICU**) for providing RB support to existing application.
- Working experience of various compilers (e.g. **CC, GCC, MinGW, MSVC, Borland C++** etc) and make tools (**nmake, gmake** etc) and have experience in automating the build system using **Make files**.
- Good command on various tools for debugging (MSVC IDE), profiling (truss, DTrace on Solaris), memory leak finding (**Valgrind** on Linux) and **core dump** analysis (using **DBX, GDB, WinDBG** etc) on all major platforms.
- Good experience in analyzing real-time issues, troubleshooting and tracking issues to closure within customer's environment
- Good team player, self-starter, quick learner with excellent communication and interpersonal skills.

## Experience Summary:

- \*[Infosys Ltd](#) (Chandigarh) : Dec-2007 to Till-Date
- [Barco Electronics Ltd](#) (Noida) : Feb-2007 to Nov-2007
- [Am Soft Systems Pvt Ltd](#) (Gurgaon) : Jan-2005 to Feb-2007

**\*NOTE: 18-month working experience at customer end (in US and Hyderabad) involving work of project development/enhancement, troubleshooting & support.**

## Education:

- 2001 - 2004 **M.C.A** [ Kumaon University (Nainital) ] **76.1%**
- 1998 - 2001 **B.Sc.** [ Ch. C.S University (Meerut) ] **67.5%**
- 1997 - 1998 **12th** [ U.P State Board ] **73.8%**
- 1995 - 1996 **10th** [ U.P State Board ] **66.5%**

## Technical Skills:

- Technical Domain : Telecom (IDAM) [using CA Siteminder, Forgerock AM, IDM, DS, IG, OIM-11g]
- Operating Systems : Linux (Ubuntu, SuSE/Redhat), Windows, Solaris (8/9/10), Unix (HPUX/AIX)
- Programming Languages : C, C++, VC++, XML, Java, Perl, Shell & Java Script
- Database and tools : Oracle 11g/12c, OpenDJ, AD, SQL Developer
- Framework & IDE : QT Framework, Win32-MFC-VC++, Eclipse
- Tools & Debuggers : GDB(Linux), DBX(Solaris-9/10), MSVC debugger, WinDBG, nm, DTrace, C++Filt, Truss
- Compilers & Build Tools : MSCV, GNU-GCC, Sun studio-CC, Borland C++, GNU Make, Cygwin, MSys, MinGW
- Version control tools : CVS, VSS, SVN, MKS, Sablime, Clear case
- Memory Leak Detectors : Rational Purifier, Valgrind, DTrace
- Web/Application Servers : iPlanet, Sun one, IIS (5/6), JBoss, Tomcat
- Methodologies : UML, Design Pattern, I18N, G10N, L10N
- Libraries : Boost, Xerces/Xalan, bzlib, OpenSSL, Qanava, CURL, STL, Xlib/X11, IBM-ICU

## Professional Experience:

1. **Migration of IAM solution from WSO2 to Forgerock** (Infosys for ATT from Mar-2020 to till date)
  - a. **Description:** In the existing solution of vendor, the security was handled by WSO2 product. In the consistent growing business demands, it was decided to move the IAM solution to new Forgerock suite of products (using OpenAM, OpenIDM, OpenDJ and OpenIG) for handling existing security requirements and to handle future demands. Project aim is to migrate all the existing WSO2 features to Forgerock product and to enable the overall solution highly extensible and secure.
  - b. **Technology:** Java Scripts, Groovy, AWS, Kubernetes, Docker, ForgeRock AM, IDM, DS, IG, RDS Database, Shell script
  - c. **Responsibility:**
    - i. Closely work with vendor to understand the problem, design and implement the solution for different IAM business requirements
    - ii. To work with other teams and integrate the IAM suite application with other client applications.
    - iii. Troubleshooting the various issues observed in OpenIDM/OpenAM /OpenIG and LDAP-DS and provide the solutions to the team.
2. **Vodafone NZ IAM Framework Implementation** (Infosys for Vodafone NZ, Duration- Sept-2015 to Jan-2019)

- a. Description: Project aim is to upgrade all the existing legacy IAM applications to the new and industry standard software which should enable the integration of third-party application with the newly deployed IAM suite. The new IAM solution also targeted to provide scalability and manageability to existing authentication, authorization and identity related operations and gives seamless user experience.
  - b. Technology: Java, Spring Web Services
  - c. Responsibility:
    - i. Led the team of 11 people, coordinate with onsite coordinator and gather the requirements, handle the implementation and deployment plan by assigning the work within team.
    - ii. To work with other teams and integrate the IAM suite application with other modules.
    - iii. Troubleshooting the various issues observed in OIM/OpenAM and database and provide the solutions to the team.
3. **SiteMinder Professional Services** (Infosys for Computer Associates, Duration- Sept-2013 to Aug-2015)
- a. Description: ProServ is an operational team for site minder to develop/enhance and support the custom applications and plug-in for authentication/authorization schemes, login pages; for specific customers.
  - b. Technology: C-C++/ Java JNI, Web Services, Visual Studio IDE
  - c. Responsibility:
    - i. Analyze the existing customer requirement and implement/enhance the designs for the application in order to plugin it with main application (i.e. SiteMinder).
    - ii. **15 Months client onsite work** includes performing the certification, handle the client issues and resolve them after resolving configuration issues.
4. **Site Minder Development-SMDV** (Infosys for Computer Associates, Duration- Oct-2010 to Mar-2011)
- a. Description: Site Minder is Resource & Access Management (IAM based) software product that provides access to the resources depending on the user privileges. SMDV is primary technical development team engaged with onshore team to develop and enhancing the site minder product with new features.
  - b. Technology: C-C++, Java, JNI, Perl, Clear case, Web Servers (IIS 6,7.5, Apache), Application Server (JBoss, Tomcat)
  - c. Responsibility: Analysis/coding/unit testing/delivering the feature assigned to me. Interactions with customer to understand the requirements on weekly basis.
5. **Spectrum I18N** (Infosys for Computer Associates, Duration- April-2009 to Aug-2010)
- a. Description: Spectrum is networking software used to monitor network devices in a defined topology wherein fault tolerance of each device can be monitored dynamically. Spectrum was used only by English users. The aim of project was to provide i18n support so that user in any locale can use Spectrum. This project was executed into 3 phases (i.e. 1. Implementation, 2. Merge, 3. Unification)
  - b. Technology: C++, Java, JNI, PERL, CORBA VisiBroker 7.0 SP2, IBM ICU 4.2.0.0 library for Unicode, Sablime for sub versioning
  - c. Responsibility: Analysis, design and implementation of i18n library and wrapper functions for i18n support. Defining and scheduling task for juniors. Interactions with customer to define workflow.
6. **Professional Services** (Infosys for Computer Associates, Duration- Oct-2008 to Mar-2009, Oct-2012 to till date)

- a. Description: ProServ is an operational team for site minder to develop custom applications and plug-in for authentication/authorization schemes, login pages; for specific customers.
  - b. Technology: C-C++/ Java JNI, Web Services, Visual Studio IDE
  - c. Responsibility: Analyze the existing customer requirement and implement/enhance the designs for the application in order to plugin it with main application (i.e. SiteMinder). **3 months client side work** includes mentoring the team and resolving build, setup, and configuration issues.
7. **Escalation Report Team (ERT)** (Infosys for Computer Associates, Duration- Mar-2008 to Oct-2008, Mar-2011 to Dec-2011)
- a. Description: ERT is primary technical support team for fixing bugs and enhancements to site minder. This project involved making bug fixes and enhancement to the server component for optimally using the Business Logic written in C++.
  - b. Technology: C++/Java/JNI/Perl on Windows, Linux, Solaris, Clear case
  - c. Responsibility: Analyzing, finding, and fixing the reported bug in the existing Site Minder modules by providing visibility of the work to the seniors on regular basis, & act like a proactive member.
8. **Display Management Software** (BARCO, Duration- Feb-2007 to dec-2007)
- a. Description: Barco has designed network centric software allowing controlling the image of products ranging from a single projector up to a mega-wall made up of many projector channels. The control of each of those is done using a GUI which is both intuitive and highly customizable. The GUI allows defining an unlimited number of scenarios according to personal and common requirements. This project was about to develop the different UI components of Visual application.
  - b. Technology: X11/Xlib library on Linux, MSVC 2005, QT 4.1.5 GUI application framework, UML
  - c. Responsibility: Analysis, design and implementation of software modules, to complete the assigned tasks within the stipulated time set and ensure that the software delivered are adhering to the quality standards preset
9. **CeLiberate** (with Am Soft, Duration- May-2006 to Feb-2007)
- a. Description: CeLiberate brings to market a wide range of products enabled with ***Identity***. Context Aware Telephony Service is a product from CeLiberate that enables a subscriber to exercise fine-grained control over one's communication channels by managing who can call, when and how, based on the privileges granted. It enables a subscriber to specify how to handle in-bound communications based on the subscriber's current Context – State (meeting, on vacation, travel, weekend, driving, etc.), Location and Presence; and the Privileges it has given to the calling party to route the communication to an appropriate channel.
  - b. Technology: MSVC, C++, CORBA (ACE-TAO), QT-4.2.2, Java, Symbian Series 60, windows mobile SDK, Win32 API
  - c. Responsibility: Developed web based interface (GUI) in QT (with other team members) integrated with CORBA server to give more strength to Skype. This GUI window is attached with Skype application and provides custom view of any user selected in Skype buddy list.
10. **Quarantine Drive-QDrive** (with Am Soft for Maxtor Corporation (Seagate), Duration- Oct-2004 to Sept-2005)
- a. Description: Quarantine drive is a product to protect user PC from unknown virus attack using a different approach by assuming the periodic attack of virus. Therefore by keeping the current files in a temporary area, infected files in quarantine area and main (final) files in the safe area with the help of periodic AV signature updates, QDrive

product is able to protect the user data from Unknown viruses. This product consists of one user interface in MFC, a windows service and a WDM filter driver to file system driver.

- b. Technology: Windows SDK, IFS kit, WinDDk, Windbg, MFC, VC++
- c. Responsibility: To develop an MFC GUI application along with two members. In Quality assurance, my responsibility was to look for the proper redirection of files in user drive and check for the correct operation of the GUI application. I was also team member of black box testing and responsible for reporting the respective bugs in the software.

## Personal Profile:

- Father's Name : Late Mr. Som Nath
- Wife Name : Rishu Bala Malhotra
- Date of Birth : July-23rd-1980
- Gender : Male
- Phone no : +91-9888761223

## Trainings, Certifications and Awards:

- Received **PRIMA team award** for project excellence (Infosys)
- Received Org Level **First prize** in coding competition (Infosys)
- 2 times received **Spot award** for best performer in team (Infosys)
- Delivered training on Unicode and I18N concepts (Infosys)

### Certifications & Trainings:

- Application Development using C++ QT Framework (Barco)
- Essential OOP development using UML and design patters (Infosys)
- Security awareness certification (Infosys)
- Security Essentials (CA)
- IAM Essentials (CA & Infosys)
- Fundamentals of Software development life cycle (Infosys)
- Fundamental of PERL Programming (Infosys)
- Design Thinking (Infosys)

## References:

- Will be available on request